

*Sub C3*

58.(Twice Amended) A cardiac rhythm management system, including:

a ventricular sensing circuit for sensing ventricular beats;

a controller, obtaining V-V intervals between ventricular beats and recursively computing a first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, [from] using a most recent V-V interval duration and a [previous] stored previously-computed value of the first indicated pacing interval; and

a ventricular therapy circuit, providing pacing therapy based on the first indicated pacing interval.

*Sub C4*

63.(Twice Amended) A cardiac rhythm management system, including:

a ventricular sensing circuit;

a controller, the controller including:

a V-V interval timer;

a first register, for storing a first indicated pacing interval;

a filter, recursively updating the first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, [from] using the most recent V-V interval stored in the V-V interval timer and the previously-computed stored value of first indicated pacing interval stored in the first register; and

a ventricular therapy circuit, providing pacing therapy based at least partially on the first indicated pacing interval.

91.(Twice Amended) A cardiac rhythm management system, including:

a ventricular sensing circuit;

a controller, the controller including:

a V-V interval timer;

a first register, for storing a first indicated pacing interval;

means for recursively updating the first indicated pacing interval, for a most recent V-V interval concluded by a paced and for a most recent V-V interval concluded by a sensed beat, [from] using a most recent V-V interval duration and a [previous] stored previously-computed value of the first indicated pacing interval; and

a ventricular therapy circuit, providing pacing therapy based at least partially on the first indicated pacing interval.

*Sub C5 B1X*